

LAKE: PICKEREL P (VLMP LEA)
TOWN: DENMARK
COUNTY: OXFORD

MIDAS: 9687
TRUE BASIN: 1
SAMPLE STATION: 1

WHOLE LAKE INFORMATION

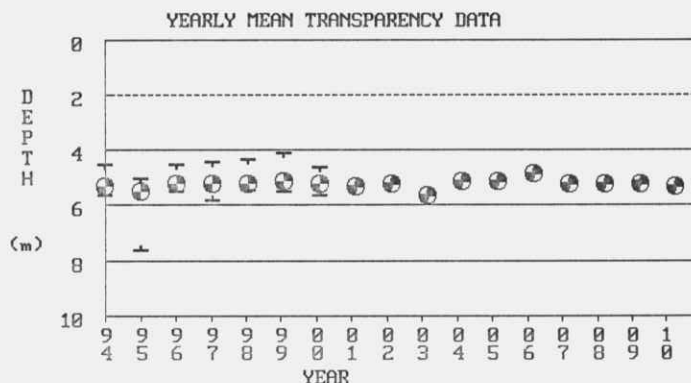
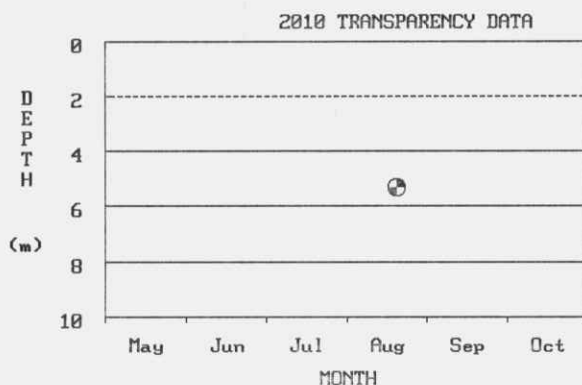
MAX. DEPTH: 5 m. (18 ft.)
MEAN DEPTH: 3 m. (9 ft.)
DELORME ATLAS #: 04
USGS QUAD: NORTH SEBAGO
IFW REGION A: Sebago Lake (Gray)
IFW FISH. MANAGMENT: Warmwater

TRUE BASIN CHARACTERISTICS

SURFACE AREA: 16.0 ha. (39.5 a.)
FLUSHING RATE: 4.80 flushes/yr.
VOLUME: 480000.0 cu. m. (389 ac.-ft.)
DIRECT DRAINAGE AREA: 1.11 sq. km. (0.43 sq. mi.)

PLEASE NOTE THE FOLLOWING: The SAMPLE STATION # refers to the location sampled. The term TRUE BASIN is used to define areas within a lake that are separated by shallow reefs or shoals and therefore function as separate lakes. There are approximately 50 lakes in the state that have more than 1 True Basin. True Basin Characteristics are now being included in the first section of these reports to enable users of the Phosphorous Loading Methodology to better evaluate the data. If there is no data for a particular True Basin, True Basin Characteristics must be obtained from the DEP. PICKEREL P has 1 True Basin(s).

SECCHI DISK TRANSPARENCY GRAPHS:



Note: 2010 graphs may indicate multiple readings taken on a given day.

SUMMARY OF CHEMICAL AND TROPHIC STATE PARAMETERS:

[* indicates that Secchi disk was visible at bottom of lake (or one reading used in calculation was visible)].

YEAR	MEAN	MEAN	MEAN	MEAN	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPHIC STATE INDICES			
	COLOR	pH	ALK	COND.	EPI	SURF	BOT.	PRO.								EPI PHOS			
	(SPU)		(mg/l)	(uS															
				/cm)	CORE	GRAB	GRAB	GRAB	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
1994	-	6.70	5.0	-	8	-	-	-	4.5	5.3	5.6	6	-	-	-	-	-	45	-
1995	18	6.67	10.8	-	7	-	-	-	5.0	5.5*	7.6	5	-	-	-	-	-	-	-
1996	25	6.60	7.5	-	6	-	-	-	4.5	5.2	5.5	5	2.2	2.2	2.2	-	-	46	-
1997	-	-	-	-	14	-	-	7	4.4	5.2*	5.8	4	5.7	5.7	5.7	-	-	-	-
1998	40	6.18	5.9	-	6	-	-	-	4.3	5.2*	5.4*	4	2.9	3.1	3.6	-	-	-	-
1999	18	6.50	5.2	-	4	-	-	-	4.1	5.1*	5.5*	4	1.5	1.5	1.5	-	-	-	-
2000	25	6.50	5.0	39	6	-	-	-	4.6	5.2*	5.6*	4	1.8	1.8	1.8	-	-	-	-
2001	19	6.50	6.5	34	5	-	-	-	5.3	5.3	5.3	1	2.2	2.2	2.2	-	-	-	-
2002	24	6.50	5.0	33	5	-	-	-	5.2	5.2	5.2	1	2.0	2.0	2.0	-	-	-	-
2003	25	6.40	6.5	31	5	-	-	-	5.6	5.6	5.6	1	1.5	1.5	1.5	-	-	-	-
2004	10	6.60	4.0	27	5	-	-	-	5.1	5.1	5.1	1	2.0	2.0	2.0	-	-	-	-
2005	26	6.70	6.0	27	5	-	-	-	5.1	5.1	5.1	1	2.3	2.3	2.3	-	-	-	-
2006	30	6.50	6.0	21	9	-	-	-	4.8	4.8	4.8	1	5.4	5.4	5.4	-	-	-	-
2007	16	6.60	6.0	21	7	-	-	-	5.2	5.2	5.2	1	3.0	3.0	3.0	-	-	-	-
2008	13	-	6.0	20	6	-	-	-	5.2	5.2	5.2	1	2.2	2.2	2.2	-	-	-	-

MIDAS: 9687
*TRUE BASIN: 1
*SAMPLE STATION: 1

YEAR	MEAN	MEAN	MEAN	MEAN	TOTAL PHOS. MEANS (ppb)				SECCHI DISK (m.)				CHLOROPHYLL A(ppb)			TROPIC STATE INDICES			
	COLOR	pH	ALK	COND.	EPI	SURF	BOT.	PRO.								EPI PHOS			
	(SPU)		(mg/l)	(uS															
				/cm)	CORE	GRAB	GRAB	GRAB	MIN.	MEAN	MAX.	N	MIN.	MEAN	MAX.	C	G	SEC	CHL
2009	23	6.40	6.0	21	6	-	-	-	5.1	5.2	5.2	1	2.4	2.4	2.4	-	-	-	-
2010	22	6.50	15.0	21	5	-	-	-	5.3*	5.3*	5.3*	1	2.0	2.0	2.0	-	-	-	-
SUMMARY:	22	6.50	6.6	27	6	-	-	7	4.1	5.2*	7.6	17	1.5	2.6	5.7	-	-	46	-

[illegible]

WATER QUALITY SUMMARY

PICKEREL POND, DENMARK

Midas: 9687, Station: 01 - Primary

The Maine Department of Environmental Protection (ME-DEP) and the Volunteer Lake Monitoring Program (VLMP) have collaborated in the collection of lake data to evaluate water quality, track algal blooms, and determine water quality trends. This dataset does not include bacteria, mercury, or nutrients other than phosphorus.

Water quality monitoring datasets for Pickerel Pond have been collected since 1994. During this period, 13 years of basic chemical information was collected in addition to Secchi Disk Transparencies (SDT). In summary, the water quality of Pickerel Pond is considered to be above average, based on measures of SDT, total phosphorus (TP) and Chlorophyll-a (Chla). The potential for nuisance algal blooms on Pickerel Pond is low.

Water Quality Measures: Pickerel Pond is a non-colored lake (average color 24 SPU) with an average SDT of 5.2 m (17.0 ft). Occasionally the Secchi disk is visible on the bottom of the pond, thus SDT is an underestimate of water quality. The range of water column TP for Pickerel Pond is 4-14 parts per billion (ppb) with an average of 7 ppb, while Chla ranges from 1.5-5.7 ppb with an average of 2.7 ppb. Recent dissolved oxygen (DO) profiles show little DO depletion in deep areas of the lake. The potential for TP to leave the bottom sediments and become available to algae in the water column (internal loading) is low.

Pickerel Pond is monitored by volunteers and the Lakes Environmental Association located in Bridgton Maine.

See ME-DEP Explanation of Lake Water Quality Monitoring Report for measured variable explanations. Additional lake information can be found on the Internet at <http://www.lakesofmaine.org/> and/or <http://www.maine.gov/dep/blwq/lake.htm>, or telephone the ME-DEP at 207-287-3901 or the VLMP at 207-783-7733.

Filename: pick9687, Revised: 12/06, By: jp